set produced in Europe. This was in the fall of 1914.

As soon as the conference was even to not controlled the set of th

country when it entered the war was to start the manufacture of airplanes in industrial organising ability upon this problem we could turn out a fleet of airplanes that would simply overwhelm the enemy. Our engineers had studied its foreign airplane motors and a number of them were being made in this country. It was realized, however, that they were not adapted for quantity production on an American basis, and it was very necessary for us to develop a motor of our own which could be produced in enormous quantities. As soon as the United States was drawn into the war the Packard Motor Car Company offered its models and experience to the Government on the Fourth of July, and it is interesting to note that the first experimental motor was delivered to the Government on the Fourth of July, and it is interesting to note that the first experimental motor was delivered to the Government on the Fourth of July, and it is interesting to note that the first experimental motor was delivered to the Government on the Fourth of July, and it is interesting to note that the first experimental motor was delivered to the Government on the Fourth of July, and it is interesting to note that the first experimental motor was delivered to the Government on the Fourth of July, and it is interesting to note that the first experimental motor was delivered to the Government on the Fourth of July, and it is interesting to note that the first experimental motor was delivered to the Government on the Fourth of July, and it is interesting to note was sent to Washington on Thanskgiving Day, This, the first production mean that the production mean that the production one except a man who has actually had experience with such work can realize the infinite amount of detail required in organization work does not make any showing at all to the general public, and consequently is not appreciated. One of the engineers of the Ford plant told the writer personally that he thought every one would recognize the right of the ford consequently is not appre

chandard and which could be produced in nonrous quantities. As soon as the United States was drawn into the was the Packard Motor Car Company offered its medels and experience to the Government, and being actuated by patriotic motives was perfectly willing to abandon, for the time being, all claim to the origination of this metor, although it had expended \$400,000 in its development. However, there were some changes that the Government called for, and it was delt that a representative of some other motor manufacturing concern should be an expended by the Government of the concern should be accessed by the Government of the concern should be accessed by the Government of the concern should be accessed by the Government of the configuration of the complete plans of his motor, and these were studied by Major Hall, who allowed a number of changes.

When the war first broke out altripiane were studied by Major Hall, who allowed a number of changes.

When the war first broke out altripiane were sitted with 100 horse-power engineering practics, and was followed as the complete plans of his motor, and these were studied by Major Hall, who allowed a number of changes.

When the war first broke out altripiane were sitted with 100 horse-power engineering practics, and was followed as understand the complete plans of his motor, and the size of the complete plans of his motor, and these were studied by Major Hall, who are studied by Major Hall

HERE IS THE TRUE STORY OF THE FAMOUS LIBERTY MOTOR

The Lightest and Most Powerful Airplane Engine in the World Is Now Being Produced on a Quantity Basis.

So many parties stories have appeared reflecting on the Liberty Motor and the latter is provided with resolution really responsible for its origin and development that the dates mostle Department of The Story of the Liberty Motor as convicted in the Story of the Liberty Motor as convicted in the Story of the Liberty Motor as written by a distincenced and accurate the liberty and the liberty Motor as written by a distincenced and accurate the calculation of the Scientific American.

The facts as he sets them down are those on which The Story works ago on the same subject. The Attornoon Story works ago on the same subject. The Attornoon Story works ago on the same subject. The Attornoon Story works ago on the same subject. The Attornoon Story works ago on the same subject. The Attornoon Story works ago on the same subject. The Attornoon Story works ago on the same subject. The Attornoon Story works ago on the same subject. The Attornoon Story works ago on the same subject. The Attornoon Story works ago on the same subject. The Attornoon Story works ago on the same subject of the Scientific and the Attornoon of the Story works ago on the same subject. The Attornoon Story works ago on the same subject of the Attornoon of the Liberty motor is a same subject. The Attornoon of the Story works ago on the same subject of the Attornoon of the Liberty Motor was probably a standard motor in which a few modifications had been introduced, and special or work of American and Foreign the Story works and the Attornoon of American and Foreign the Story works and the Attornoon of American and Foreign the Story works and the Attornoon of American and Foreign design the Story works and the same subject of the Attornoon of the Liberty motor is now proceeding at a very satisfactory of the Liberty motor was being and the Attornoon of American and Foreign the Story works and the Sto

In several other factories work on the Liberty motor has just begun or is about to begin, and certainly by the middle of the summer the Liberty motor ought to be produced in very large quantities. The only thing that is retarding the airplane programme now is the manufacture of planes to carry the motors.

The efficiency of the Liberty motor is not to be questioned by any one who has examined it thoroughly. It is far more powerful than any other airplane

In the first models the cylinders were set at an angle of 50 degrees, following the practice used in automobile engines; but in the second model an angle of 40 degrees was adopted so as to cut down head resistance. Tests of the engine showed that there was no noticeable withation with the cylinders set at this unusual angle, even when the engine was run at considerably reduced speed. In this engine the cam shaft was placed directly over the cylinders and the housing for the cam shaft acted as a truss to hold the upper ends of the cylinders. The trird model was begun in April, 1917, immediately after war was declared, and the first engine was completed in May. This contained certain improvements over the previous models, aimed particularly at reduction of weight and simplification of manufacture.

The contained certain improvements over the previous models, aimed particularly at reduction of weight and simplification of manufacture.

The contained certain contained certain composed to the first demands upon this however, did not man that it seems absurd to hear a hig bealthy man say it when he automobile motor plant was operated to carry this out the automobile motor plant was operated to carp this out the automobile motor plant was operated to hear a hig bealthy man say it when he automobile motor plant was operated to hear a light production that it seems absurd to hear a hig bealthy man say it when the produce of the stress full to hear a trust to hear a light production that it seems absurd to hear a hig bealthy man say it when the automobile motor plant was operated to hear a hig bealthy man say it when to produce of the stress full to hear a light to hear a light of the production of the matomobile motor plant was operated to hear a light to hear a light of the part of the matomobile motor plant was operated to hear a light to hear a light to hear a light of the production that it seems absurd to hear a light of the hear all the heart plant to hear a light of the hear all the heart plant to hear a light of

"Another thing that deters some men from learning is the price they have paid for their car and they are afraid to take chances. They have become so accustomed to leaning on some one else they lack mif-reliance, but the time is coming, if it is not here now, when this must be changed. Take our Saxon car, for instance. It is a car any man, regardless of his financial standing, may be proud to drive. Its first cost is low, it is economical, the operation is so slinit is economical, the operation is so slin-ple any one can drive it with a few les-sons, and it's such a sturdy car the small upkeep cost is remarkable. One of the strongest features is the immense saving in tires and the big mileage ob-tained with the minimum of wear and tear."

Jepeon Joins Huriburt.

Frank Jepson, formerly manager of sales promotion of the Firestone Tire and Rubber Company of New York, has accepted the position of assistant sales manager of the Huriburt Motor Truck Company, where he will be in charge of retail sales and sales premotion.

Mr. Jepson is comparatively a newcomer to the automobile field, but his rise has been rapid.



Wilson says-"This is the time for America to correct her unparadonable fault of wastefulness and extrava-

The President does not mean that you should give up all motoring—only give up extrava-

When you can get high-priced ear riding comfort and motor dependability from a car selling in the \$1000 class, why spend

It is just plain good sense in these times to be your own driver and operate a car that will run 20 miles on a gallon of gasolene and take you 15,000 miles—or five times across the continent—on one set of tires.

100,000 Saxon Six owners are doing it.

Matches 14 costly cars in fea-tures of construction and equip-Immediate Deliveries

SAXON MOTOR CO. OF N. Y.

King Eight in Novel High Gear Demonstration.



Dealer Strikes an Average in 1918 Engineering Practices and Appointments.

By SAMUEL SCHARY.

The successful automobile of to-day is

The comparison of the well known cars shows that 50 per sent of the chasses are using six cylinder motors, a 3 per cent. gain over last year; 32 per cent, are equipped with four cylinder power plants and the number of makers using sight cylinder and twoice cylinder.

appearance, performance and endurance with the ideal car of the master minds of the modern automobile world.

What this ideal is may be closely judged each year by a close study and analysis of the new models.

Every high grade car made in America can be included in these analyses. It was found that the average price of these cars was \$1,950, which means that a car representing the average of these cars would sell at this price. This average car would have some of the features of the best cars and some of the features of the low priced cars, or would represent the medium between the two.

The ideal car is a car possessing all

The ideal car is a car possessing all to the popular opinion. Many think the circulating pump has been on the upthe features and characteristics that represent the best practices in automogaining faster than the sixes, but they the use of the thermosiphon system of

practices and by the trend in automoidle design. The automobile has now reached a stage of perfection that all the best practices and features in design have been adopted by the majority of good cars, or the trend is toward the adoption of those features as shown by the annual changes in cars.

The following analyses are based on 170 different models of cars, or rather chassis, and include every well known make of car in America.

The comparison of the well known cars shows that 50 per cent. of the last few years and now stands at 3.4 inches.

For two years the average length of stroke has been increasing, and the average of all the cars in 1918 is 4.9 inches The "average" car for 1918 would there-fore have a six cylinder 3.4 inch by 4.9

cooling. Last year's gain was 41/4 per cent., and 68:1 per cent. of all the chassis now use the pump system.

Both pressure and gravity system of fuel feed lost in popularity last year, causing a gain of nearly 10 per cent. in the use of vacuum feed systems; 83.7 per cent. of all the chassis now use the

racuum system.

Battery distributer ignition made an-ther gain of 5 per cent. as compared to magneto ignition and is now used on 171% per cent, of all chassis.

Fifty-two and six-tenths per cent, of the total chassis have adopted the full Hotchkiss drive for 1918. This is a gain

of 7.5 per cent. In the last year.

The rear spring suspension for 1918 is more nearly standardised than at any more nearly standardised than at any time in recent years. It is true that there are still no fewer than ten different types in use, but the semi-elliptic pre-dominates the field, with an increase of 10 per cent, over 1917. In conclusion it is interesting to note how many features of the ideal of the ideal car are embodied in the

SURELY IN SIGHT

Reo Manager Tells of Experience He Is Having With Dealers.

A large number of orders in excess of production received by the Reo Motor Car Company during the last few weeks justifies the recent prediction of James J. Hunt, manager of the Reo Motor Car Company of New York, that there would be a shorters of automobiles this main.

Company of New York, that there would be a shortnee of automobiles this spring.

Mr. Ifunt says:

"Reo dealers are not only taking cars as fast as they are built, but they have exhausted the stock which accumulated during the winter months, when weather conditions interfered with transportation. And there is some indication of further curtailment of production in order that more Government work may be

Every Reo Six Is "The Best Six"

TWO REO SIX OWNERS met on the street recently. Just happened to drive up and stop at the same place.

THAT FRATERNAL SPIRIT that for some rescon exists between all Reo owners served as an introduction.

YOU SEE, THE VERY FACT that a man owns a Reo Six is an endorsoment of his sound judgment and good taste—

AND, OF COURSE, they talked of their Rece.

"MY SPEEDOMETER SHOWS 23,874 miles!" exclaimed one exultantly, "and I have owned this Reo Six just two years-bought it in March, 1916."

"THAT'S PRETTY GOOD" replied the other, but just come here and look at mine.

"24,962 MILES—and I also bought my Reo in March, 1916." JUST THEN ANOTHER Reo Six came along.

Noticing it was the same model they hailed it "HOW LONG HAVE YOU driven your Rec

Six and how many miles?"

HE HAD DRIVEN his Six 20,245 miles in twenty-one months.

DID SPACE PERMIT we'd like to tell you all those three Reo owners said to each other— for each was an enthusiast and each insisted that hard driving and care considered, his was the best Reo.

THAT'S THE IDEA we wish to convey in this advertisement—that every Reo is a good automobile.

WONDERFUL UNIFORMITY of performance due to wonderful uniformity of qualitythat is an attribute distinctly Rec.

WE'VE SAID BEFORE and we repeat, that after 20,000 miles your Reo Six is still new.

OWNERS KNOW THAT - not only Reo owners, but their friends who drive other sixes and who compare notes as to cost of operation and upkeep.

AND THAT IS WHY the demand is always greater then the factory output.

YOU MUST ORDER your Rec Six at once # you would obtain one for early spring delivery.

Reo Motor Car Co. of New York, Inc.

Broadway at 54th St. Phone Circle 1271

Brooklyn: Newark: New Rocheller 1380 Bedford Av. 37-39 William St. Main St. BRONX: Bowman & Meyer, 2235 Grand Concourse.



